

Original

What is Claimed is:

- A dispersion comprising a liquid phase and a solid phase, wherein the solid phase comprises a pyrogenic oxide, and wherein said pyrogenic oxide:
- 5 a) is doped with one or more doping components; and
 - b) has a BET surface area of between 5 and 600 m²/g.
2. The dispersion of claim 1, wherein said pyrogenic oxide is silica.
- 10 3. The dispersion of claim 1, wherein said liquid phase is water.
4. The dispersion of any one of claims 1-3, wherein said pyrogenic oxide is prepared by the method of flame hydrolysis or flame oxidation.
- 15 5. The dispersion of any one of claims 1-3, wherein said pyrogenic oxide is doped using an aerosol.
6. The dispersion of any one of claims 1-3, wherein said pyrogenic oxide is doped with aluminum oxide.
- 20 7. The dispersion of any one of claims 1-3, wherein the amount of doped material in said pyrogenic oxide is between 1 and 200,000 ppm.
8. The dispersion of claim 6, wherein the amount of doped material in said pyrogenic oxide is between 1 and 200,000 ppm.
- 25 9. The dispersion of claim 8, wherein said doped material is applied as a salt or a salt mixture.
- 30 10. The dispersion of any one of claims 1-3, wherein the solid phase in the dispersion is present in a proportion by weight of between 0.001 and 80 wt.%.

11. The dispersion of claim 6, wherein the solid phase in the dispersion is present in a proportion by weight of between 0.001 and 80 wt.%.

12. A process for preparing a dispersion according to claim 1, comprising:

- 5 a) mixing a doped pyrogenic oxide with a liquid; and
 b) milling the mixture produced in step a).

13. The process of claim 12, wherein said liquid is water and said pyrogenic oxide is silica.

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14. The process of claim 12, wherein said pyrogenic oxide is present in said liquid in a proportion by weight of between 0.001 and 80 wt.%.

15. The process of claim 12, wherein said milling procedure is performed using an ball mill.

16. The process of claim 12, wherein said milling procedure is performed using a pearl mill.

20 17. The process of claim 12, wherein said milling procedure is performed using a high pressure milling mixture.

18. A coating mixture for an inkjet paper or inkjet film comprising the dispersion of claim 1.